

# Sturdi-USA

## TO DISTRIBUTE SHAFT REPAIR SLEEVES

Sturdi-USA has recently been selected by Taiwan-based Sturdi Sealing Tech as the exclusive U.S. distributor of its Sturdi shaft repair sleeves, a kit for repairing worn shafts. Each kit includes a thin, stainless steel sleeve and a basic installation tool.

"Sturdi shaft repair sleeves are highly engineered components that press-fit onto a shaft to quickly, easily, and economically repair and even deter damage to shafts and spindles," said Steve Kroll, president of Sturdi-USA, in Houston, TX. "Sturdi shaft repair sleeves provide a protective seal running surface and reduce the need for complex and expensive shaft machining, repair or replacement."

Engineered for automotive and industrial applications, the sleeves are designed for ambient-temperature interference fit and are available in various sizes and finishes.

There are four benefits to using Sturdi shaft repair sleeves as an alternative to repairing or replacing a damaged shaft. Sturdi shaft repair sleeves reduce equipment down time, as they are installed without having to remove the shaft. The sleeves are thin, so there is no need to change seal size. The sleeve's surface is machined without directionality, making it more wear



resistant and often resulting in a better finish than that of the original shaft. Sturdi shaft repair sleeves have a durable, corrosion-free surface, which creates a sealing surface conducive to extending the life of the seal.

Grooving wear on a shaft can require re-machining, such as metalizing or regrinding, or it can result in the shaft having to be replaced. Sturdi shaft repair sleeves are pushed over the worn running surface. A standard depth installation tool is supplied with the sleeve.

Sturdi shaft repair sleeves are suited for applications in industries such as aerospace, agricultural equipment, automotive, construction equipment, food and beverage processing, marine, material handling, mining and natural

resources, oil and gas, pharmaceutical processing and power generation.

Automotive applications include, but are not limited to, engine crankshaft front and rear, transmission front and rear; transfer case input and output shaft, pinion differential/yokes, harmonic balancer, camshaft, timing cover; wheel; steering sector/shift shaft.

Industrial applications include, but are not limited to, industrial gearboxes and motor shafts, industrial pumps, crushers, conveyors, motors, reducers, fans, valves and pumps.

### For more information:

Sturdi-USA

Phone: (713) 784-8504

[www.sturdi-usa.com](http://www.sturdi-usa.com)

# SKF

## INTRODUCES SENSOR BEARING WITH EMC FILTER

A newly introduced SKF sensor bearing equipped with an electromagnetic compatibility (EMC) filter offers protection against potential damage to the bearing's sensitive electronics from power surges or electric discharges, most notably in AC electric motor applications. The EMC filter is integrated

in-line with the sensor bearing's cable to protect the Hall sensor and other electronics used in the bearing and can help improve bearing reliability and service life.

The new sensor bearing with EMC filter provides a variety of monitoring capabilities for applications across many industries. Depending on application, SKF sensor bearings can measure a range of operating conditions, such as speed, position and direction of a shaft, among others.

All SKF sensor bearings serve as ready-to-mount, plug-and-play units incorporating a shielded sensor and deep groove ball bearing. The sensor body, impulse ring and bearing are



mechanically attached to each other to form a unit retaining tight tolerances within the bearing.

SKF sensor bearings can deliver benefits before and after installation. Their design helps reduce development times and costs associated with manufacturing and assembly; a reduced footprint for the all-in-one units can allow for downsizing and weight reductions; and durable components and materials promote sensor bearing unit performance over time.

### For more information:

SKF USA, Inc.

[www.skf.com](http://www.skf.com)



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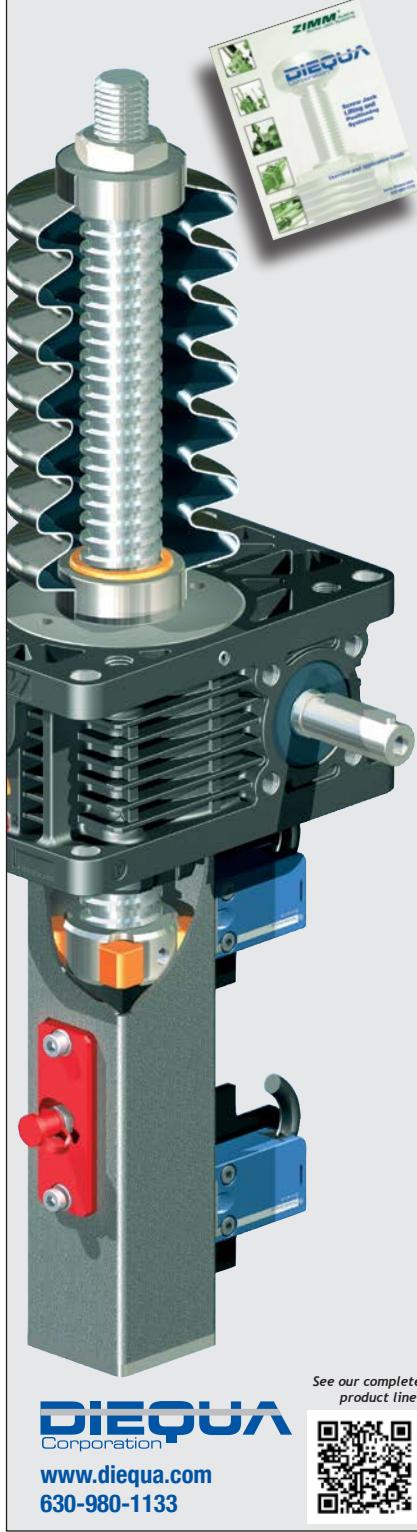
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# Stafford

INTRODUCES NEW BORE SHAFT COLLARS

A line of large bore shaft collars and flange mounts for construction equipment, processing and mining conveyors, energy applications and more are available from Stafford Manufacturing Corp. of Wilmington, Massachusetts.

Stafford large bore shaft collars are designed for heavy-duty drive system applications and are offered in one- and two-piece clamp-type configurations with smooth round, square, hex, and threaded bores. Available in a variety of materials with bore sizes up to 12" I.D., these fully split collars can incorporate keyways and slots on the bore, tapped mounting holes, spanner wrench holes, and other features on the face or O.D.

Supplied with alloy socket cap screws up to 1-8" for optimum holding power, Stafford large bore shaft collars can incorporate multiple- and extra-large screws for extreme applications. Flange mount shaft collars are also offered in large sizes and can incorporate drilled and tapped mounting holes in any pattern, along with other customer specified modifications.

Stafford large bore shaft collars and flange mounts are priced according to material and quantity; available from stock up to 6" I.D. and up to 12" as specials. Price quotations are provided upon request.

#### For more information:

Stafford Manufacturing Corporation  
Phone: (800) 695-5551  
[www.staffordmfg.com](http://www.staffordmfg.com)





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## LM76

### INTRODUCES 'ROLL-SLIDE MINI' CARRIAGE AND RAIL LINEAR MOTION SYSTEMS

Low cost, "Roll-Slide Mini" carriage and rail linear motion systems are now available from LM76 in lengths from 160mm (6.30 in.) to 1,200mm. Travel is from 88mm (3.46 in.) to 1,128mm (44.41 in.)

These low-profile linear motion systems are 12mm (0.47 in.) high and feature quiet running, low resonance, smooth motion, low friction 440c stainless steel roller bearings, low magnetic signature, corrosion resistant stainless steel rails and electrodeless nickel plated carriages.

The "Roll-Slide Mini" carriage and rail linear motion systems have evenly-spaced mounting holes in the rails and the carriage has four drilled and tapped mounting holes. The maximum load is 80 N (45 pounds) for a single carriage, and the temperature range is -10 degrees to 50 degrees

C. Applications can include camera sliders, sensor carriers, medical, bio-pharmaceuticals, food, defense/aerospace, and manual adjustment mechanisms. As an option the carriage is available with a stainless steel, plastic tipped friction knurled hand stop, and the rails are supplied with end stops. Carriage and rail systems can be ordered with zero clearance for maximum precision.

LM76 manufactures and distributes a broad variety of FDA & USDA compliant bearings and shafting, in inch sizes of 0.25 inches to 1.5 inches, and a FDA and SDA compliant profile rail and slide system that can be integrated into new and existing applications. The bearing options include self-lubricating FDA and USDA compliant self-lubricating (PTFE) composite bearings in a 304 stainless steel shell,

## Festo

### INTRODUCES A LOW-COST POSITION TRANSMITTER FOR LINEAR ACTUATORS

The new SDAT-MHS T-slot programmable position transmitter from Festo provides the same functionality as position transducers and mechanical potentiometers at a lower price point. These new sensors offer OEMs a flexible solution for sensing the position of pneumatic cylinders. By sensing the magnetic piston, cylinder position can be transmitted to the PLC with repetition accuracy of 0.1 mm.

The five sizes of the Festo SDAT-MHS correspond to the most commonly

used strokes of Festo pneumatic cylinders. The SDAT-MHS detects complete strokes without projecting beyond the end of the cylinder, including full stroke length and end position sensing. In addition to analog position data, the SDAT-MHS also features a programmable digital switching output that can replace an existing cylinder switch.

#### For more information:

Festo  
[www.festo.com](http://www.festo.com)



# J.W. Winco

## INTRODUCES STEEL AND STAINLESS STEEL HINGES

J.W. Winco, Inc., a supplier of standard industrial machine components, recently announced it now offers GN 129.2 steel and stainless steel hinges, in metric sizes.

These RoHS-compliant hinges are used for doors that are flush with the frame on the outside. Once assembled, they cannot be unhinged. Being mounted from the inside, they are suitable for doors and trap doors that must not be detachable from the outside as an anti-tamper device.

Hinges are available in steel, with a zinc-plated, blue passivated finish, European Standard No. 1.4305 stainless steel (American Standard Series

303), or European standard 1.4408 stainless steel (American Standard Series 316). The steel version has a brass, nickel-plated hinge pin and hinge washer; steel hex nut and serrated washer are zinc-plated, with a blue passivated finish. Both stainless steel versions have all stainless steel parts.

### For more information:

J.W. Winco, Inc.  
Phone: (800) 877-8351  
[www.jwwinco.com](http://www.jwwinco.com)



and lower cost bearings with a ceramic coated shell and FDA and USDA compliant liner. Bearings are available in closed and open configurations, and are drop-in replacements for all inch sized linear ball bearings

### For more information:

LM76  
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# Groschopp

OFFERS ABILITY TO PURCHASE CUSTOM MOTORS ONLINE

Groschopp Inc. is now offering customers the ability to order custom motors and gearmotors online. A recent redesign of Groschopp's website features a number of new functions and abilities that make it easier for them to deliver what customers need in a motor, allowing customers to modify and choose specifications for standard products, online.

The process is similar to shopping for a vehicle on a car dealer website, where a customer first chooses their basic model, then adds different levels of accessories or modifications. Groschopp is one of the few fractional horsepower motor manufacturers to offer such a tool.

These features, combined with Groschopp's ability to build and ship customer-modified gearmotors within two working days, provides a quick turnaround for customers desiring quality, precision engineered gearmotors in a short period of time. There are over 50 modifications to choose from

on the redesigned website, as well as a feature where customers can upload their prints and specifications directly to Groschopp. This will help create a more efficient product selection process by providing sales with all the information needed earlier in the sales cycle to get the customer the best gear motor for their application, sooner.

Another key feature on Groschopp's updated website is the addition of 3-D, rotatable images of motors and gearmotors. These 3-D interactive images will visually highlight the product's design. Additionally, performance curves on product pages will assist engineers in the design process by allowing them to review the specific performance data of each motor and gear motor. It is Groschopp's desire that these features will equip engineers with the information they need to choose the best product for their application.

### For more information:

Groschopp, Inc.

Phone: (800) 829-4135

[www.groschopp.com](http://www.groschopp.com)

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# Bosch Rexroth

## INTRODUCES EFC 3600 VARIABLE FREQUENCY DRIVE

The EFC 3600 variable frequency drive (VFD) by Bosch Rexroth complements the existing product portfolio including the Fe and Fv frequency converters as well as the IndraDrive platform.

The EFC 3600 improves the process control through integrated PID controllers as well as through a sequence control system with eight steps. The settings enable an energy-efficient operation of equipment and machines at their optimal operating point. Due to its overload capacity of up to 200 percent as well as the initial torque of up to 150 percent, the EFC 3600 can be used for a range of applications. The freely scalable V/Hz characteristic allows load-dependent adjustment of the voltage/frequency curve, which ensures a longer motor service life.

The EFC 3600 can be connected to other automation topologies via optional Modbus or Profibus fieldbus interfaces or via digital and analog inputs and outputs. The EFC 3600 is offered covering the performance spectrum from 400W to 4kW (0.5hp to 5hp). Due to the integrated brake chopper and mains filter, additional peripheral devices are not required. The EFC 3600 complies with the EMC directives for industrial applications.

The program structure and easy parameter input provide for quick commissioning and start-up without the need for a PC. Harmonized parameters apply to all converters of the series. With the removable control panel function, the user can configure several electronic frequency converters. This also reduces integration and downtime in case of system expansion or in case of replacement. The service technician would simply use the control panel and copy the existing parameters to the new device.

Due to its design which is complemented by the pluggable I/O terminals and optimized cooling concept, a gapless side-by-side and space-saving installation is possible. For devices up to 0.75kW (1hp), cooling fans are not required and subsequently are supplied without fan. Devices with performance level 1.5kW (2hp) and higher are sup-

plied with integrated fans that can be easily accessed without requiring tools for maintenance. The EFC 3600 complements Rexroth's frequency converter series Fe and Fv, which cover the performance spectrum up to 90kW (125hp).

### For more information:

Bosch Rexroth  
Phone: (847) 645-3600  
[www.boschrexroth.com/en/xc](http://www.boschrexroth.com/en/xc)



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## Browning

EXPANDS SIZE RANGE FOR ENERGY-SAVING TENSO-SET MOTOR BASE

Browning recently introduced an expanded range of sizes at AHR for its self-tensioning Tenso-set motor base. The expanded product range for the energy-saving Tenso-set base will include up to NEMA 447 and equivalent IEC motor frame sizes. At AHR, the Tenso-set base with its quick-release (QR) option – available for NEMA frame sizes up to 286 – will be matched against a standard base of equal size in a belt-change run-off called the Tenso-set Challenge. Product enhancements for the quick-release models will also be highlighted at the show.

"We will have demonstrations at the show on side-by-side identical belt drives with an industry-standard base and another with the Tenso-set quick-release base," said Browning Director of Marketing Don Sullivan. "We will also be running belt-change speed contests on this setup to give technicians hands-on experience and a chance to see what a life-changer a one-minute belt change can be. We will award interim prizes as well as a grand prize for the fastest belt change performed during the show.

"We added a jam nut on the adjusting rod to hold tension on the spring system before releasing belt tension with the adjusting nut on the rod. The technician simply spins the jam nut forward against the carriage, gives it a turn or two to compress the spring further, and this relieves tension on the adjusting nut so it's easier to loosen. With the quick-release Tenso-set model, we are able to change belts on a 20-hp motor in about a minute with this improved design – around one-sixth the normal time."

The Tenso-set base is a drop-in replacement for most standard motor bases, and utilizes the same jackscrew design to adjust and hold tension on



the belt. However, the Tenso-set base includes a coil spring inside the screw housing that pushes against the carriage to maintain tension as the belt naturally breaks-in and seats itself further into the sheave groove due to loss of mass.

"The Tenso-set design helps eliminate the need for frequent belt retensioning, including during the first 24 hours of run time, which saves the maintenance staff at least one service call," said Sullivan. "More important for the building owner, it better maintains the drive's energy efficiency by preventing the normal tension loss that occurs over time. Some of the largest commercial buildings in the U.S. are already testing this base to determine ROI."

The QR option for the base allows release of all belt tension after just a few turns of the tensioning screw. The QR base has a patent-pending sliding gate that covers a cutout in the motor frame. This allows the head of the tensioning screw to pass through the base, so the carriage easily slides forward to slacken the belts. After belt installation, the carriage can be moved back and the sliding gate closed to retain the head of the jackscrew for tensioning.

### For more information:

Emerson Industrial Automation  
Phone: (314) 553-2000  
[www.emersonindustrial.com](http://www.emersonindustrial.com)

# Schneeberger

ANNOUNCES MINISCALE PLUS OPTICAL ENCODER

Schneeberger Linear Technology recently announced the new Miniscale Plus optical encoder system, a miniature guideway with integrated measuring system all in one. Miniscale is based on the Schneeberger Mini-rail guideways. The Miniscale Plus system is available in eight rail widths from 7 mm to 42 mm, and it can be combined with up to four different carriage sizes, and rails up to 1 meter in length.

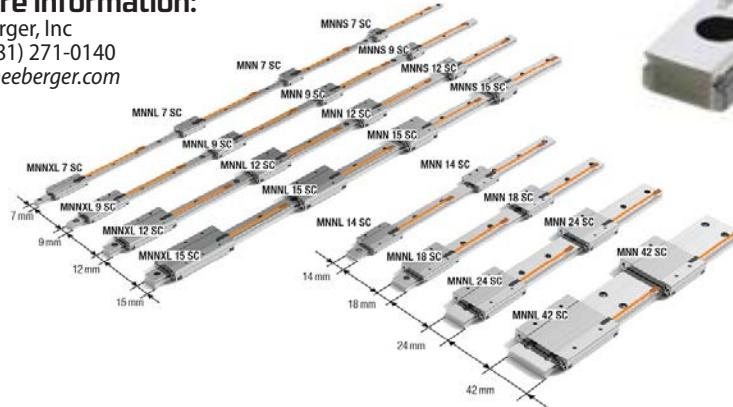
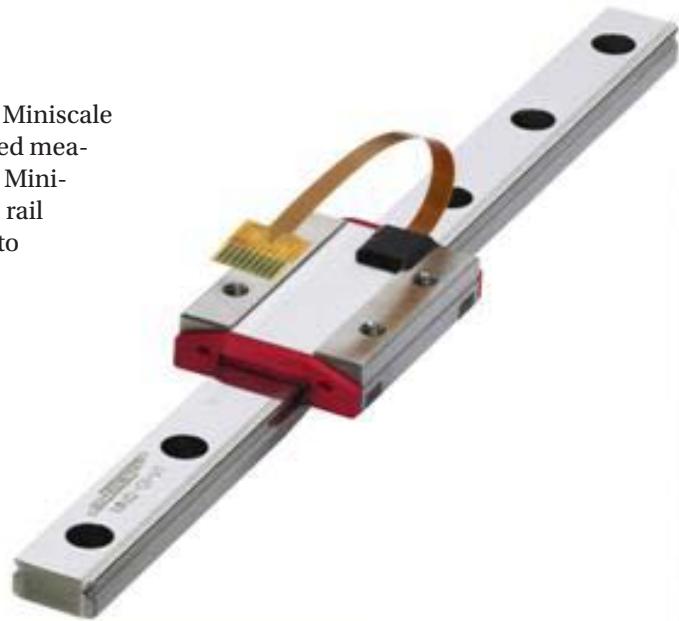
Maximize system accuracy by taking the measurement at the payload. Compared to an external encoder, the smaller envelope needed for mounting the Miniscale Plus will increase the available real estate inside the machine. In addition, the Miniscale Plus does not require set up or adjustment, saving valuable installation time.

## For more information:

Schneeberger, Inc

Phone: (781) 271-0140

[www.schneeberger.com](http://www.schneeberger.com)

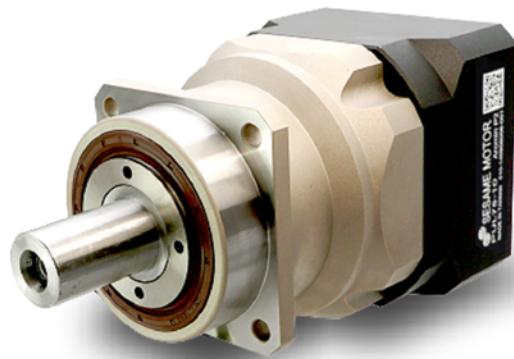


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